




# RYAN ABEYSINGHE

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## Education

### University of Maryland

Sep. 2019 – Dec. 2023

Bachelor of Science in **Computer Science**, Minor in **Global Engineering Leadership**

College Park, MD

**Relevant Coursework:** Artificial Intelligence, Algorithms Analysis, Web Development, iOS Development, Computer Vision, Network Security, Data Science, Computer Systems

**Awards/Scholarships:** Dean's List, Clifford & Camille Kendall CMNS Scholarship, CMNS Undergraduate Scholarship

## Experience

### Consumer Technology Association

Jul. 2023 – Present

Full Stack Software Developer Intern

Arlington, VA

- Oversee full-stack development and ongoing codebase maintenance for CTA/CES web apps and related web initiatives.
- Engage in problem-solving and debugging processes for web apps to ensure optimal functionality and performance.
- Built **UIs** using **JavaScript**, **HTML**, and **CSS**, while actively operating in **CMS** for website maintenance purposes.

### FINRA (Financial Industry Regulatory Authority)

May 2022 – Aug. 2022

Software Developer Intern

Rockville, MD

- Collaborated with FINRA CAT's (consolidated audit trail) technical team, enhanced and maintained application code through requirement reviews, test cases, utilizing **AWS** services, **Java**, **SQL**, and **Python** programming languages.
- Architected and integrated a scalable STRESS testing infrastructure for FINRA CAT's application, utilizing AWS cloud-based resources to support high-volume integration and penetration testing; increased test coverage by **3%**.
- Facilitated integration and maintenance of code/scripts within CAT's team repository, leveraging **Jenkins** pipelines for efficient continuous integration/delivery (**CI/CD**), enabling streamlined code deployment to production environments.

### WESTAT

Jul. 2021 – May 2022

Help Desk Analyst

Rockville, MD

- Primary focus on PC/Laptop support, which includes new system preparation, system re-imaging, problem troubleshooting, repair, and shipping logistics.
- Established secure Wi-Fi, LAN, and VPN networks at remote locations, leading client/server configuration of crucial infrastructure to ensure seamless business operations.
- Identified system hardware, network infrastructure, connectivity issues that prevented execution of user-initiated tasks.

## Projects

### TerpExchange iOS App | *Swift, Google Firebase*

May 2023 – Present

- Developed iOS app in **Swift**, enabling students to buy and sell products seamlessly within UMD campus community.
- Integrated **Cloud Firestore** as the backend data storage solution to store items listings, user reviews, and information.
- Designed real-time, responsive user interface (**UI**) capable of dynamically presenting actively posted student items.
- Leveraged **Google Firebase** Authentication to establish a robust student-affiliated authentication system among UMD students, mitigating scam risks and ensuring secure access.

### R & S Constructions LLC Website | *React.js, Next.js, JavaScript, HTML, Tailwind CSS*

Jul. 2023 – Present

- Developed fully responsive website using **JavaScript**, **HTML**, and **CSS** utilizing **React JavaScript** Framework to elevate user experience (**UX**) for general contracting purposes.
- Executed **SEO** best practices to optimize company's web traffic by establishing sitemap, meta tags, robots.txt, images, internal links, semantic **HTML**, titles/headings, optimized keywords.
- Established Domain, Domain Nameservers, SSL certificate, Cloudflare CDN, and DNS Zone editor configuration utilizing hosting provider Hostinger.

### COVID-19 Data Science App | *Python, HTML, Markdown, Jupyter Notebook*

Sep. 2021 – Dec. 2021

- Co-developed tutorial leveraging **Python**, **HTML**, and **Markdown** within a **Jupyter Notebook** to assess the impact of maintaining a healthier diet on individuals' ability to combat COVID-19.
- Leveraged **Python** regression analysis, null-hypothesis testing, and exploratory data analysis techniques to investigate the relationship between individual health factors and COVID-19 mortality rates, validating popular assumptions.

## Technical Skills

**Programming Languages:** JavaScript, HTML, CSS, C#, Java, Python, Swift

**Frameworks:** React.js, Next.js, Express.js

**Applications/Others:** Git, APIs, Node.js, CMS, MongoDB, Google Firebase, Apache, Docker, Maven